

BY: \$USERNAME\$

PROJECT DESCRIPTION

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THIS PROJECT INVOLVES THE INSTALLATION OF A TRAFFIC ACTUATED HAZARD IDENTIFICATION BEACON ALONG SOUTHBOUND MD 97. MD 97 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE HAZARD IDENTIFICATION BEACONS WILL ACTIVATE WHEN TRAFFIC IS QUEUED AT THE CROSSING.

CONTACTS FOR DISTRICT 7:

MR. JOHN CONCANNON  
ASSISTANT DISTRICT ENGINEER,  
TRAFFIC  
301-624-8140

MR. DAVE COYNE  
ASSISTANT DISTRICT ENGINEER,  
MAINTENANCE  
301-624-8105

MS. ANDREA ABEND  
UTILITIES ENGINEER  
301-624-8115

CONTACTS FOR OFFICE OF  
TRAFFIC AND SAFETY:

MR. RICHARD DAFF SR.  
CHIEF, TRAFFIC OPERATIONS  
410-787-7630

MR. ED RODENHIZER  
CHIEF, SIGNAL OPERATIONS  
410-787-7650

MR. EUGENE BAILEY  
CHIEF, SIGN OPERATIONS  
410-787-7676

EQUIPMENT LIST 'A'

B. EQUIPMENT TO BE SUPPLIED BY SHA.

ITEM NO.	QUANTITY	DESCRIPTION
9000	58 SF	SHEET ALUMINUM SIGNS
		MAST ARM MOUNTED W3-3(2) MODIFIED, 120 INCH X 60 INCH
		WOOD POLE MOUNTED W10-1, 24 INCH RADIUS
9000	1 EA	EIGHT-PHASE, FULL TRAFFIC ACTUATED, SOLID STATE DIGITAL CONTROLLER WITH INTERSECTION MONITOR, WITH BATTERY BACK-UP, FOR PHONE DROP, HOUSED IN A NEMA SIZE 'S' POLE MOUNTED CABINET.
9000	1 EA	VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS

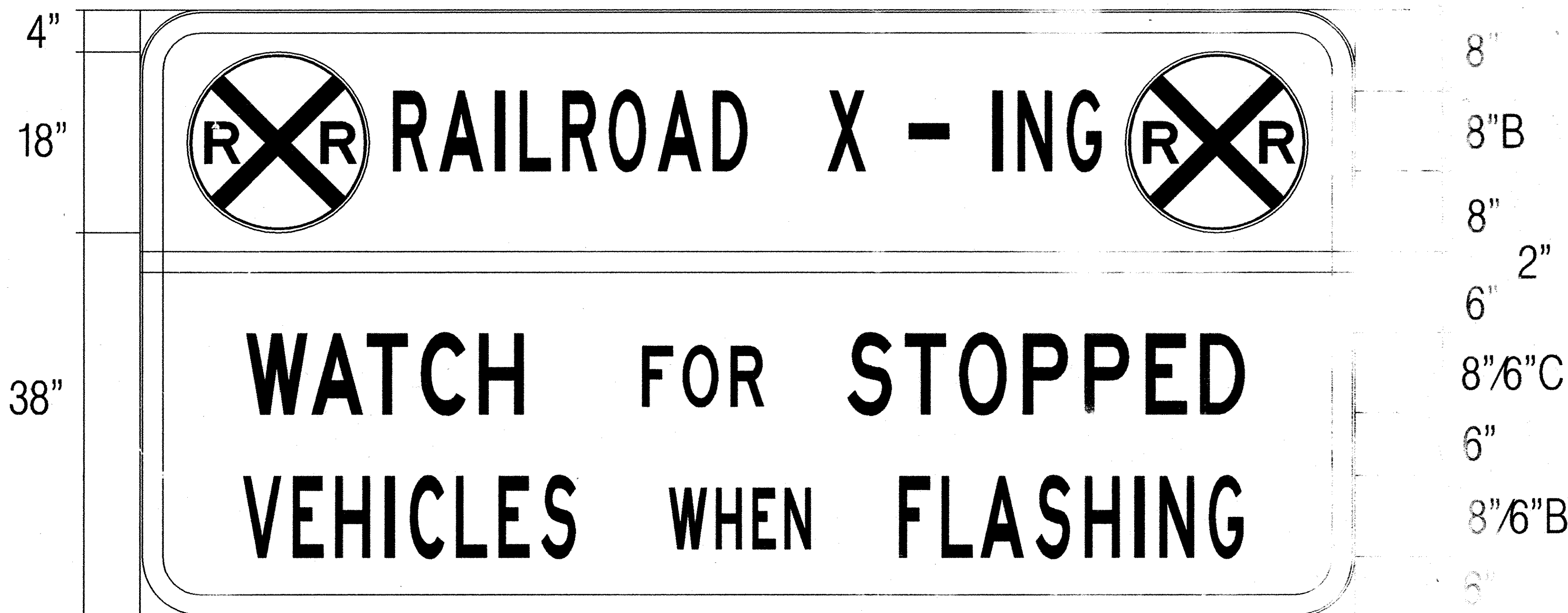
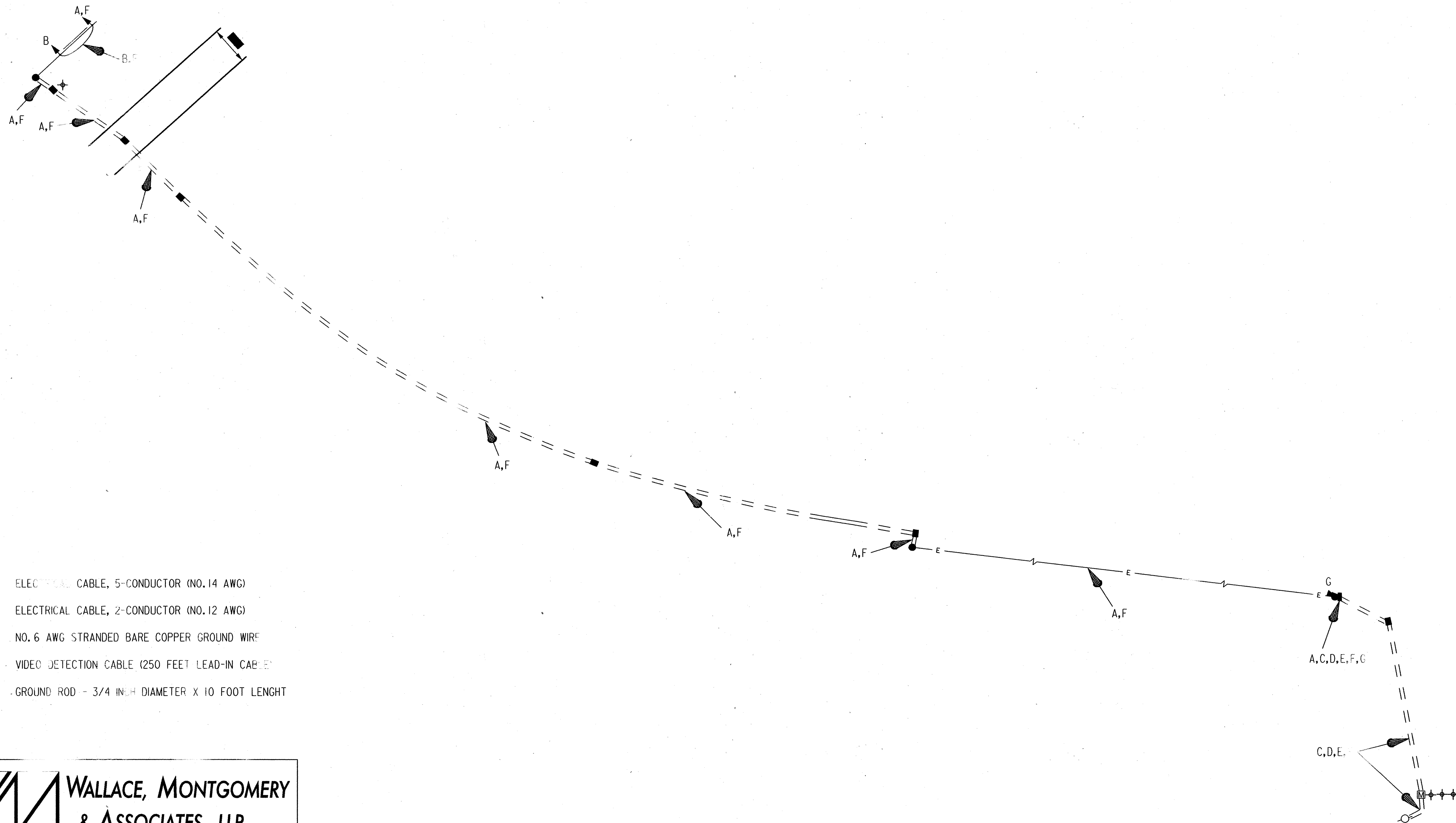
EQUIPMENT LIST 'C'

NONE

EQUIPMENT LIST 'B'

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2002	2 CY	TEST PIT EXCAVATION
5005	85 LF	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5006	25 LF	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5007	2 EA	HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LETTERS
8004	2 EA	12 INCH YELLOW LED SIGNAL HEAD SECTION
8011	3 EA	CLASS 2 WOOD POLE
8013	1 EA	CONTROL CABLE, 100 FOOT, VIDEO DETECTION
8018	6 EA	DOWN GUY WITH ANCHORS
8034	70 LF	3 INCH ELECTRICAL CONDUIT-PVC RISER
8042	17 LF	WOOD SIGN SUPPORTS 4 INCH X 4 INCH
8044	180 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8051	1380 LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8052	25 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED
8058	1 EA	METERED SERVICE PEDESTAL
8059	1 EA	ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240 VOLTS 60 AMP
8062	360 LF	ELECTRICAL CABLE 1 CONDUCTOR NO. 8 AWG, THHN/THWN
8067	8 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8069	1 EA	INSTALL GROUND MOUNTED SIGN
8070	1 EA	INSTALL OVERHEAD SIGN
8071	1 EA	VIDEO DETECTION CAMERA
8076	1 EA	STEEL POLE WITH A SINGLE 38 FOOT MAST ARM
8091	4 EA	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
8096	1 EA	CUT, CLEAN, GALVANIZE AND CAP SIGN STRUCTURE
8101	1280 LF	ELECTRIC CABLE- 5 CONDUCTOR (NO. 14 AWG)
8111	1 EA	INSTALL CONTROLLER AND CABINET - POLE MOUNT



TOD No.: AT717-09  
SHA: HO420A52/B52  
MD 97 @ CSX RR Crossing  
Howard County

W3-3(2) MOD  
120"X60"

BLACK LEGEND ON  
FY BACKGROUND

**SHA**

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

NORTHBOUND MD 97 AT THE CSX RAILROAD  
HAZARD IDENTIFICATION BEACONS

SCALE N.T.S. DATE 7/05 CONTRACT NO. AT7175185

DESIGNED BY FAE COUNTY CARROLL AND HOWARD  
DRAWN BY LOC/MILE 13097008.6  
CHECKED BY MJA T.I.M.S. NO. 3674  
A.P. NO. TOD NO.

DRAWING NO. 4423 OF SHEET NO. OF

PLOTTED: \$DATE\$  
FILE: \$FILEL\$